

Futures Workshop



MTEP 2008 Overview

MTEP 08 Future Summary

Reference	Models the Status Quo Future. This future models the power system as it exists today with reference values and trends based on recent historical data while preserving existing standards for resource adequacy, renewable mandates and environmental legislation.	
	Key Uncertainties	
	Economic Variables	Inflation Rate = 3% UnEconomic Coal Retirement = Retire as scheduled
	Capital Costs	Values based on the EIA 2006 Assumptions to the Annual Energy Outlook and Stakeholder Inputs
	Fuel Prices	Gas and Oil prices are based on MISO developed 2006 Data. Coal prices are based on Consultant Data
	Fuel Supply	Unlimited
	Environmental Costs	SO ₂ , NO _x & Mercury use PowerBase data. CO ₂ has no cost.
Environmental	Models the uncertainties assuming a mid-range carbon initiative with a carbon price of \$25 per ton.	
	Key Uncertainties	
	Economic Variables	Inflation Rate = 4.5% UnEconomic Coal Retirement = Retire 7,000 MW of coal based on Promod Retirement Analysis.
	Capital Costs	CC & CT are 10% higher than reference, others unchanged
	Fuel Prices	Gas and Oil are 10% Higher. Coal is 10% lower.
	Fuel Supply	Unchanged from Reference
	Environmental Costs	SO ₂ , NO _x use PowerBase Data. CO ₂ is \$25/ton and Mercury has a 25% higher cost.
Renewable Mandate	Future requires 20% of the energy consumption come from a renewable energy source by 2020. Assumes wind will be the resource. 40% Capacity Factor of new units applied toward mandate, and 15% Capacity counted toward Reserve Margin Calculations	
	Key Uncertainties	
	Capital Costs	Wind is 10% Higher than Reference and Wind Energy Credit Removed, Others unchanged
	Fuel Prices	Unchanged from Reference
	Fuel Supply	Unchanged from Reference
	Environmental Costs	Unchanged from Reference
Limited Fuel Supply	Future represents a limitation to the supply of Natural Gas as a fuel source	
	Key Uncertainties	
	Economic Variables	Inflation Rate = 4.5% UnEconomic Coal Retirement = Unchanged from Reference
	Capital Costs	Unchanged from Reference
	Fuel Prices	Gas is 50% higher than Reference, others unchanged
	Fuel Supply	CT and CC are limited to 70% of Max capacity
	Environmental Costs	Unchanged from Reference

